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03/11/2009 03:37 PM

To "BAYUK Dana" <BAYUK.Dana@deq.state.or.us>

cc <Tom.McCue@siltronic.com>, "Gladstone, Alan"
<AGLADSTONE@davisrothwell.com>, Kristine
Koch/R10/USEPA/US@EPA, "GAINER Tom"

bcc

Subject RE: Siltronic, Angled Monitoring Well Proposal

Thanks Dana – these modifications were incorporated as we discussed.

JAMES G.D. PEALE RG, LHG | MAUL FOSTER ALONGI

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From: BAYUK Dana [mailto:BAYUK.Dana@deq.state.or.us]

Sent: Wednesday, March 11, 2009 3:18 PM

To: James Peale

Cc: Tom.McCue@siltronic.com; Gladstone, Alan; koch.kristine@epa.gov; GAINER Tom; LARSEN Henning

Subject: Siltronic, Angled Monitoring Well Proposal

Hello James.

This e-mail follows up on a telephone call made on February 19th to discuss the "Proposed Location of Angled Monitoring Well – Siltronic Corporation" letter dated February 10, 2009 (Angled Well Proposal). The Angled Well Proposal provides Siltronic's approach to installing a monitoring well in an inclined boring drilled beneath Fab 1. The angled monitoring well will provide groundwater monitoring data between the former solvent underground storage tank system (Former UST System) and performance monitoring wells located immediately downgradient of the building.

During the February 19th telephone call, DEQ approved drilling and installing the angled monitoring well during the week beginning February 23rd with the understanding the following modifications would be incorporated into the Angled Well Proposal.

- To the extent practicable given equipment limitations and conditions encountered in the field, the vertical depth of the angled boring will be extended from 105 to 110 feet beneath Fab 1.
- The well screen will be placed between the Former UST System and monitoring well cluster WS-21-112/131 and cover a vertical depth interval corresponding to 100 to 110 feet

below Tab 1.

- Centralizers will be used to maintain the straightness of the angled well within the inclined casing during construction.
- Sampling of the angled well will be completed expeditiously following development and, except for polycyclic aromatic hydrocarbons, samples will be collected and analyzed monthly for the list of groundwater monitoring parameters provided in Table 5-1 of the EIB Pilot Study Work Plan (see footnote).
- For the initial sampling event, the groundwater sample submitted to the laboratory for VOC analysis will be analyzed on an expedited basis.
- Chloride will be analyzed for on a weekly basis to track changes in groundwater chemistry associated with the enhanced in-situ bioremediation (EIB) treatment injections occurring in the vicinity of the Former UST System
- Sampling frequency could be increased for additional selected parameters (e.g., VOCs) to meet the data collection objective of observing treated groundwater reach the angled well.

DEQ appreciates Siltronic moving forward drilling and installation of the angled well. The installation will increase Siltronic's ability to track changes in groundwater chemistry associated with using EIB in the Former UST System vicinity, provide data essential for evaluating the performance of EIB, and inform the performance monitoring/contingency plan currently being prepared.

Please let me know if you have questions regarding this e-mail.

Mr. Dana Bayuk, Project Manager

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Footnote. Maul Foster Alongi, Inc., 2006, "Final Enhanced Bioremediation Pilot Study Work Plan – Siltronic Corporation, Portland, Oregon," July 28, a work plan prepared on behalf of Siltronic Corporation.